

13 assign to each combination of channel input and input bin of  
14 said transmitter substantially orthogonalizing procedure; and  
15 a substantially orthogonal procedure processor system  
16 that applies, independently for each said channel input, said  
17 transmitter substantially orthogonalizing procedure to said  
18 spatially processed symbols assigned to each said channel input.

1 227. (NEW) Apparatus for processing a sequence of  
2 symbols received via a plurality of outputs of a channel, said  
3 apparatus comprising:

4 a substantially orthogonalizing procedure processor  
5 system that applies a receiver substantially orthogonalizing  
6 procedure to said sequence of symbols, said procedure being  
7 applied independently for each of said plurality of channel  
8 outputs, each output symbol of said substantially orthogonalizing  
9 procedure processor system corresponding to a particular output  
10 bin and a particular one of said channel outputs; and  
11 a spatial processor that, for each output bin,  
12 spatially processes symbols corresponding to said output bin in  
13 accordance with a spatial direction assigned to said output bin  
14 to develop spatially processed symbols so that a spatial  
15 direction is defined for each output bin, each output bin  
16 specifying one of a plurality of subchannels.--

REMARKS

The present preliminary amendment is for the purpose of clarifying certain aspects of the present invention. Also, certain claims have been cancelled for the purpose of reducing filing fees at the present time. The claims are believed to be in condition for allowance.

Applicants and the undersigned recognize the complexity of the present application. The Examiner is invited to contact

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the undersigned by telephone at any time to discuss the  
application.

Respectfully submitted,



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